CENTRAL REGIONAL LABORATORY

Data Checklist

Data Set AIR 2001 0071 Cheshire Monitoring Study
Suspended Particles

- Chain-of-Custody
- **2** Analysis Request Form(s)*
- Sample Tags
- Transmittal Report w/signatures of the following:
 - Analyst (s)
 - Data Management Coordinator

* Analysis Request Forms provide the data user a means to connect sample numbers with sampling locations

Prepared by: Sylvia a. Driffin 9-25-01

Data Management Coordinator

Rev. 5/4/00

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date:

SEP 2 5 2001

Subject:

Review of Region 5 Data for **CHESHIRE MONITORING STUDY**

From:

Francis A. Awanya, Chemist Francis

Region 5 Central Regional Laboratory

To:

Attached are the results for: CHESHIRE MONITORING STUDY

CRL data set number: 20010071

Samples analyzed for: Suspended Particles

Results are reported for sample designations: 2001AH08S01, 2001AH08D01, 2001AH08S02,

and 2001AH08S03.

SEP	2	5	2001
/			/

Data Management Coordinator and Date Received
Date Transmitted: 25 2001 Please have the U.S. EPA Project Manager/Officer complete the Customer Satisfaction Survey, attached, or call the CRL Sample Coordinator at 3-1226.
Please sign and date this form below and return it with any comments to:
Sylvia Griffin Data Management Coordinator Region 5 Central Regional Laboratory ML-10C
Received by and Date
Comments:

 Data Set Number:
 20010071
 Parameter:
 Suspended Particles

 Facility Name:
 CHESHIRE MONITORING STUDY

 Study Name:
 CHESHIRE MONITORING STUDY

 Date of Narrative:
 09/24/2001
 Analyst:
 FAA

 Signature:
 FWH

ANALYSIS CASE NARRATIVE

Four (4) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on September 19, 2001. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter preparations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters were completed on 9/21/2001.

A tear and scratches were observed in exposed filter Q6280063 (CRL sample I.D number 2001AH08D01). A pinhole size tear was also observed in exposed filter Q6280062 (CRL sample I.D number 2001AH08S03). Small tear was also observed in exposed filter G1006688 (CRL sample I.D number 2001AH08S02). Use those results with caution. Suspended particle results for those samples could be biased low due to loss of particles or filter materials.

Review of suspended particle result for sample 2001AH08D01 (0.0118 g) (exposed filter Q6280063), field duplicate of sample 2001AH08S01 (0.0114 g)(exposed filter Q6280064) indicate that the tear and scratches in filter Q6280063 did not significantly affect recovery of suspended particles collected on those two filters. This assessment is limited to the field duplicate results only. Use the data with caution.

A probable cause for those tear or scratches are activities related to removal of exposed filters from the individual sampling equipment in the field. Use the data with caution.

Office of Enforcement

CHAIN OF CUSTODY RECORD

PROJ. 01AH0		PROJEC Cheshire			ng Study		NO.		_/	//	Activity Cod 12345 901017
SAMPLER Mike Murp	L) Mike Mu	nich	OF	n a l y	e/	//,	AIR 2001007/
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SO1	9/4	00:00	Х		GUIDING HAN	OS SCHOOL	2		-		5-340054 1 to 2
SO2	9/4	00:00	Х		RVHS		2				5-340056 1 to 2
SO3	9/4	00:00	Х		ADDAVILLE	70.00	2				5-340057 1 to 2
					· · · · · · · · · · · · · · · · · · ·			Δ.			Guiding Hands School
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				Š.,—	*****	1000	-				RVHS
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							5-140013				

AIR 200/0071 ARRIVA DATE: 9/19/201 DUE DATE: 9/26/2001 01AH08 Sampler Mike Murphy Page Cooler ID 1 5-140013 Station Date / Time Grab / Comp Station Location No Bottles Tag Numbers Sample Id: 04/09/2001 00:00:00 Grab Com 2 01AH08DO1 DO1 **GUIDING HANDS SCHOOL** 5-340055 1 to 2 Bottle No. 1 Parameter Metal analysis by ICP 2 Parameter Bottle No. **PM10** Grab / Comp Station Location Sample Id: Station Date / Time No Bottles Tag Numbers Grab Com SO1 04/09/2001 00:00:00 GUIDING HANDS SCHOOL 2 01AH08S01 5-340054 1 to 2 Bottle No. 1 Parameter Metal analysis by ICP Bottle No. 2 Parameter PM10 Grab / Comp Sample ld: Station Date / Time **Station Location** No Bottles Tao Numbers Grab Com 2 SO2 04/09/2001 00:00:00 01AH08SO2 5-340056 1 to 2 **RVHS** Bottle No. 1 **Parameter** Metal analysis by ICP Bottle No. 2 Parameter PM10 Grab / Comp Sample Id: Station Date / Time **Station Location** No Bottles Tag Numbers 01AH08SO3 SO3 04/09/2001 00:00:00 Grab Com 2 ADDAVILLE 5-340057 1 to 2 Bottle No. 4 Parameter Metal analysis by ICP Bottle No. 2 **Parameter PM10**

Project No.

ENVIRONMENTAL PROTECTION AGENCY REGION V

CENTRAL REGIONAL LABORATORY FINAL RESULT REPORT FOR THE TEAM: <u>ANALYTICAL AND INORGANIC (A&I)</u>

DIVISION/BRANCH: AIR DIVISION SAMPLING DATE: 09/04/2001 LAB ARRIVAL DATE: 09/19/2001 DUE DATE: 09/26/2001

DU NUMBER: 90101A DATA SET NUMBER: 20010071 STUDY: CHESHIRE MONITORING STUDY PRIORITY: 1 LABORATORY: CRL

SAMPLE#	CRL LOG NUMBER	SAMPLE DESCRIPTION	SUSPENDED PARTICLE (g/filter)	et .	
1	2001AH08D01	GUIDING HANDS SCHOOL	0.0118		
2	2001AH08S01	GUIDING HANDS SCHOOL	0.0114		
3	2001AH08S02	RVHS	0.0199		
4	2001AH08S03	ADDAVILLE	0.0315		
DATE OF ANALYSIS ANALYST			09/21/2001		•

£7			
Reviewed by:	6,8	Date: 9 /25 2001	

Page 1 of 1

CRL SOP: HK015	Date: 07 January 200€	Revision No: 1
Data review for the Analytical and	Inorganic Group	Page 1 of 1

ATTACHMENT II

CRL Analytical and Inorganics Data Review Checklist

Batch Number: 200 100 7 | Facility: CHESHIRE MONITORING STUDY

Parameter: SUSPENNED PARTICLES CRL.SOP: AIC-04.7

Package Overview:	YES	NO
Raw Data Package Complete?	Lower	
Results Reported Correctly?	- Lucara	
Special Requests Done?	N/A	174
Calculations Checked?	1	No. of the last of
Calibration Not Exceeded?	N/A	
Manual Peak Integration performed? Circle one IC or GC and Check	N/A	
Field QC Checked?	N/A	
Quality Control:		
Holding Times Met?	N/A	
Preservation Checked?	N/A	
Proper Digestion Verified?	N/A	
Initial Instrument Performance Checks Verified?	B. Carrier	
Calibration Verification Checked?	N/A	
Sample-Specific QC (Internal Standards or Analytical Spikes) Okay?	NA	
Matrix QC Checked?	N/A	
Digestion Blanks Checked?	NIA	
Spiked Blank Checked?	N/A	
LCS (if applicable) Checked?	N/A	
QCS (if applicable) Checked?	N/A	
Final Check		
Technical Review Done?	V	
Narrative Complete?	V	
Analyst: Peer Reviewer: E. &		
Date: 9/21/200 Date: 9/25/2001		
Comments Attached? (Y/N)	CRL Fo	orm Version

 Data Set Number:
 20010071
 Parameter:
 Suspended Particles

 Facility Name:
 CHESHIRE MONITORING STUDY

 Study Name:
 CHESHIRE MONITORING STUDY

 Date of Narrative:
 09/24/2001
 Analyst:
 FAA

 Signature:
 Signature:

ANALYSIS CASE NARRATIVE

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CHESHIRE AIR MONITORING PROJECT PM10

Parameter: Suspended Particles

Data Set Numbers: 20010071, 20010072, 20010073

Date of Analysis 9/21/2001

Analyst:

FAA

BALANCE VERIFICATION:

Sandard Weights	Balanced weight	Differences	
Actual (g)	Balanced (g)	(g)	
		Limit +/-0.0005 g	
Data set Number 2001	0071,72,73		
1.0000	0.9998	0.0002	10
1.0000	0.9999	0.0001	
2.0000	2.0000	0.0000	
2.0000	1.9998	0.0002	
5.0000	4.9999	0.0001	
5.0000	4.9998	0.0002	

QC-SUMMARY FOR EXPOSED FILTERS

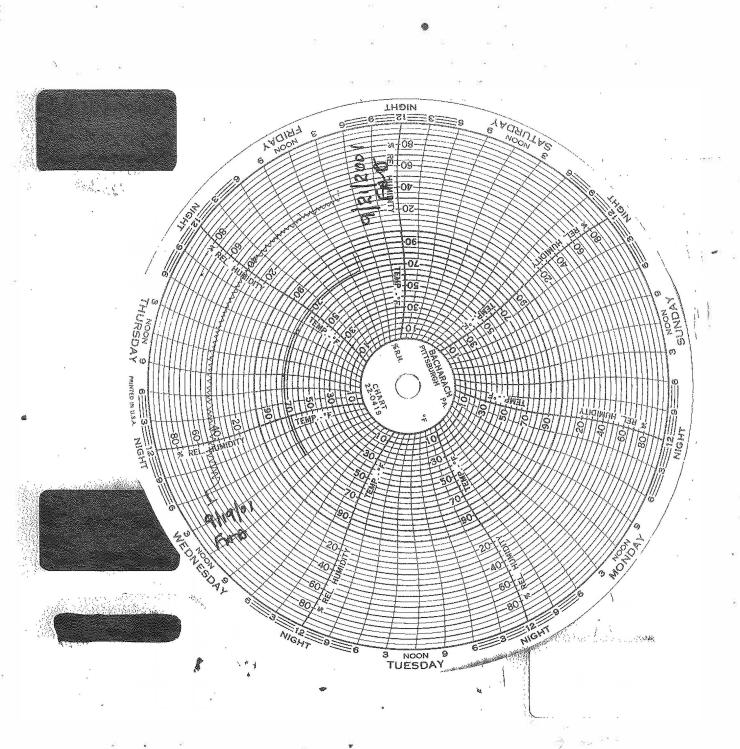
Filter ID	CRL Sample	Sampling	ANALYST	Exposed	
Number	I.D Number	Date		weight (g)	
计算生态计算 重复					
Data set Number 200	10071,72,73				
Q6280072	2001AH10S03	09/16/01	Analyst 1	4.3982	
Q6280072	2001AH10S03	09/16/01	Analyst 2	4.3986	
Differences (Limit +/- 5	mg)			-0.0004	
Q6280071	2001AH10S02	09/16/01	Analyst 1	4.3979	
Q6280071	2001AH10S02	09/16/01	Analyst 2	4.3982	
Differences (Limit +/- 5	mg)			-0.0003	
G1006688	2001AH08S02	09/04/01	Analyst 1	4.4428	
G1006688	2001AH08S02	09/04/01	Analyst 2	4.4427	
Differences (Limit +/- 5	mg)			0.0001	

CHESHIRE AIR MONITORING PROJECT PM10

Filter ID	CRL Sample	Sampling	Station	Sampler	Pstg	P1/Pa	Total	Pre Weight	Exposed	Weight	PM10
Number	I.D Number	Date	Location	SN	Avg	j = 1	Volume (M^3)	of filters (g)	weight (g)	Gain	(UG/M^3)
				72 - T	(M)2			Tagen 4	74 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	***	
Data set N	umber 20010071										
Q6280063	2001AH08D01	09/04/01	Guiding Hands School	3013	19.50		0.00	4.3705	4.3823	0.0118	ERR
Q6280064	2001AH08S01	09/04/01	Guiding Hands School	3012	20.25		0.00	4.3691	4.3805	0.0114	ERR
G1006688	2001AH08S02	09/04/01	RVHS	3009	15.65		0.00	4.4083	4.4428	0.0199	ERR
Q6280062	2001AH08S03	09/04/01	Addaville	3011	19.90	Į.	0.00	4.3919	4.4234	0.0315	ERR
Data set No	umber 20010072		-					F:			
	2001AH09D01	09/10/01	Guiding Hands School	3013	19.50		0.00	4.3824	4.3951	0.0127	ERR
Q6280066	2001AH09S01	09/10/01	Guiding Hands School	3012	19.60		0.00	4.3774	4.3895	0.0121	ERR
Q6280067	2001AH09S02	09/10/01	RVHS	3009	19.75		0.00	4.3312	4.3433	0.0199	ERR
Q6280068	2001AH09S03	09/10/01	Addaville	3011	19.70		0.00	4.3858	4.3976	0.0118	ERR
Data set No	umber 20010073										
Q6280070	2001AH10D01	09/16/01	Guiding Hands School	3013	20.00		0.00	4.3585	4.3733	0.0148	ERR
Q6280069	2001AH10S01	09/16/01	Guiding Hands School	3012	18.95		0.00	4.3932	4.4086	0.0154	ERR
Q6280071	2001AH10S02	09/16/01	RVHS	3009	19.90		0.00	4.3773	4.3979	0.0199	ERR
Q6280072	2001AH10S03	09/16/01	Addaville	3011	19.70		0.00	4.4025	4.3982	-0.0043	ERR

				C.S.	
Filters ID	TARE WE,	Deep, Wt	Exposed W	* Exposed	Connector
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06280078	4.3542		managa a sa a managa a sa	STOTE HOUSE TO A SECURE AND A SECURE AS A	
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G	1006694	4.4154	4,4145		4.4530	24.2	
G	100.6692	4.4112	*, 6	93	4.4359	45 TA A	
G	1006690	4.4085			4.4456		
G	1006688	4. 4083	4.488	smul tepy	4.4428	4.4427	
6	10066 86	4. 4220	4.4212		The state of the s	4.4517	
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9 6	1006680	4. 4226			4.487		
6	1006683	4.4116		4.4801	4-4800	4.4799	
G	1006681	4.4283	3	18			
G	1006677	4.3830	4.3220	8	4.4879	4.4878	
F	1006676	4.3786		X	4.4257	4.4261	galla Pijaras afancaya antar ana
G	1006673	4.4143		4:4633	4.4643	4.4643	
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G	1006669	4.4150	-V-1	4.4492	4.4485	4.4487	
G	1006667	4.4152			4.4945	4-4946	
16	1006665	4.4076		€.¥4661	4.4665	4.4663	
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Preservative None

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Parameters PM10

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